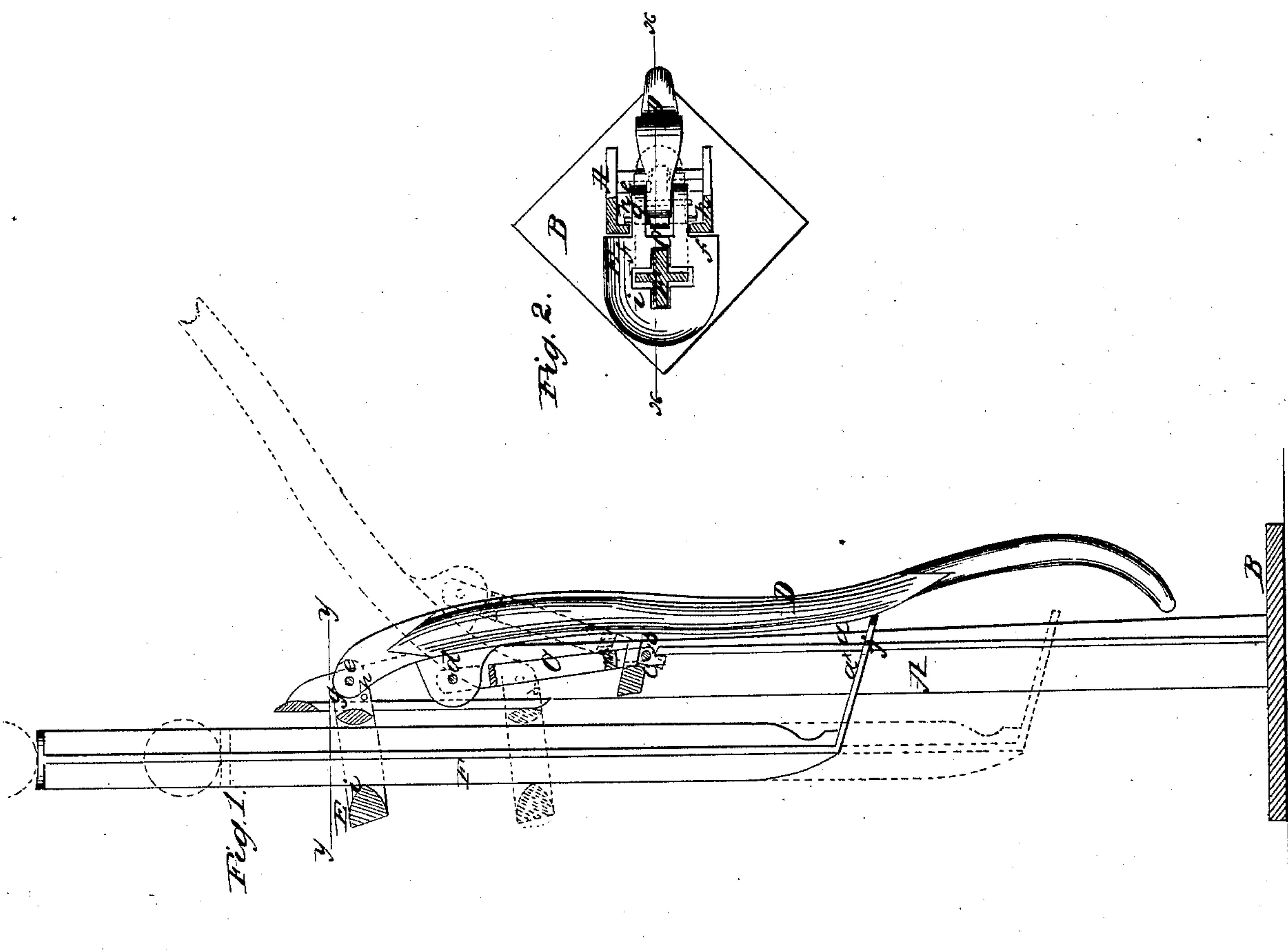


*W. J. Lane,  
Lifting Jack,*

*Nº 30,484,*

*Patented Oct. 23, 1860.*



*Witnesses  
J. W. Coombs  
A. S. Spencer*

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# UNITED STATES PATENT OFFICE.

WILLIAM J. LANE, OF CHAPPAQUA, NEW YORK.

## IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. 30,484, dated October 23, 1860.

*To all whom it may concern:*

Be it known that I, WILLIAM J. LANE, of Chappaqua, in the county of Westchester and State of New York, have invented a new and Improved Lifting-Jack; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a horizontal section of same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention consists in the employment or use of a sliding clamp attached to a lever, having a movable fulcrum and fitted in a suitable stock, in connection with a slide-bar which passes through the clamp, and has its lower end fitted in the stock, all the parts being arranged substantially as hereinafter fully shown and described, whereby a very simple and efficient portable lifting-jack is obtained, and one that may be readily manipulated and applied to its work.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents an upright, which has a suitable base B, and is slotted longitudinally nearly its whole length, as shown at *a*, the slot extending from the base B upward to a point *b*. This upright forms the stock of the implement, and at the upper end of the slot, within the upright or stock, there is secured by a joint *c* an arm C, through the upper end of which the fulcrum-pin *d* of a lever D passes.

To one end of the lever D there is attached by a pin or joint *e* a plate E, the inner edge of which has shoulders *f*, which bear against the side of the upright A. The tang *g* of the plate E has pins *h* in it, which project from its side and bear against the inner side of the upright or stock A, as shown clearly in Fig. 2. The pins *h h* are inserted in the lower part of the tang *g*, for reasons hereinafter stated. The plate E has an opening *i* in it, through which a bar F passes. This opening may be in the form of a cross, as shown clearly in

Fig. 2, and the bar F is of similar form in its transverse section. The lower end *a\** of the bar F is curved and passes through the slot *a* of the stock or upright A, and has a notch *j* in each side to receive the edges of the stock or upright A at each side of the slot *a*, said edges serving as guides for the bar F. The upper and lower surfaces of the plate E are concave, so as to cause the edge of the opening *i* to be quite angular, as shown in Fig. 1.

The operation is as follows: The upright or stock A is placed beneath the article to be raised, and the bar F is elevated by hand until its upper end comes in contact with said article. The lever D is then elevated, and the plate E thereby shoved down on the bar F, as shown in red, Fig. 1. The lever D is then depressed and the plate E elevated, the plate as it rises clamping bar F, owing to the end pull or draw of the lever D and the canting position thereby given the plate, and the bar F is consequently elevated, and with it the article which rests on it. When the lever D is fully depressed, the fulcrum-pin *d*, which is at the upper end of arm C, is beyond the pivot *e*, which connects the plate E with lever D, and consequently a self-acting lock is obtained and the bar F, with its weight, is retained. The weight and bar are lowered by elevating the lever D, and thereby moving the fulcrum *d* out or back from underneath the pivot *e*, as shown in red, Fig. 1. The pins *h h* prevent the plate E from being canted upward and binding against the bar F when the latter is being moved upward and adjusted to work by the operator. The pins *h h* will not allow the plate E to be shoved upward above a horizontal position.

I do not claim any of the within-described parts separately; but I do claim as new and desire to secure by Letters Patent—

The employment or use of the plate or clamp E, lever D, arm C, and bar F, applied to a stock or upright A, and all arranged essentially as and for the purpose herein set forth.

WILLIAM J. LANE.

Witnesses:

THOS. DEAN,  
JOHN F. CHILD.